6BA6

Remote-Cutoff Pentode

7-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC)	6.3 ± 10%	volts ←
Current at 6.3 volts	0.3	amp

Direct Interelectrode Capacitances: ←

	Without External Shield	*With External Shield*▲	
Grid No.1 to plate	0.0035 max.	0.0035 max.	μμf
Grid No.1 to cathode, grid No.3 & internal shield, grid No.2, and heater	5.5	5.5	μμf
Plate to cathode, grid No.3 & internal shield, grid No.2, and heater .	5	5.5	μμf

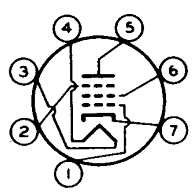
Characteristics, Class A_1 Amplifier:

Plate Supply Voltage	100	250	volts
Grid No.3	*Connected to*	*cathode at*	*socket*
Grid-No.2 Supply Voltage . .	100	100	volts
Cathode Resistor	68	68	ohms
Plate Resistance (Approx.) .	0.25	1	megohm
Transconductance	4300	4400	μmhos
Plate Current	10.8	11	ma
Grid-No.2 Current	4.4	4.2	ma
Grid-No.1 Voltage (Approx.) for transconductance (μmhos) = 40	-20	-20	volts

Mechanical:

Operating Position . . . . Any
Maximum Overall Length . . . . 2-1/8"
Maximum Seated Length . . . . 1-7/8"
Length, Base Seat to Bulb Top (Excluding tip) . 1-1/2" ± 3/32"
Diameter . . . . 0.650" to 0.750" ←
Dimensional Outline . . . . See *General Section*
Bulb T5-1/2
Base . . . . Small-Button Miniature 7-Pin (JEDEC No.E7-1)
Basing Designation for BOTTOM VIEW . . . . 7BK ←

Pin 1 - Grid No.1
Pin 2 - Grid No.3, Internal Shield
Pin 3 - Heater



Pin 4 - Heater
Pin 5 - Plate
Pin 6 - Grid No.2
Pin 7 - Cathode

← Indicates a change.

→ **AMPLIFIER — Class A_1**

Maximum Ratings, *Design-Maximum Values:*

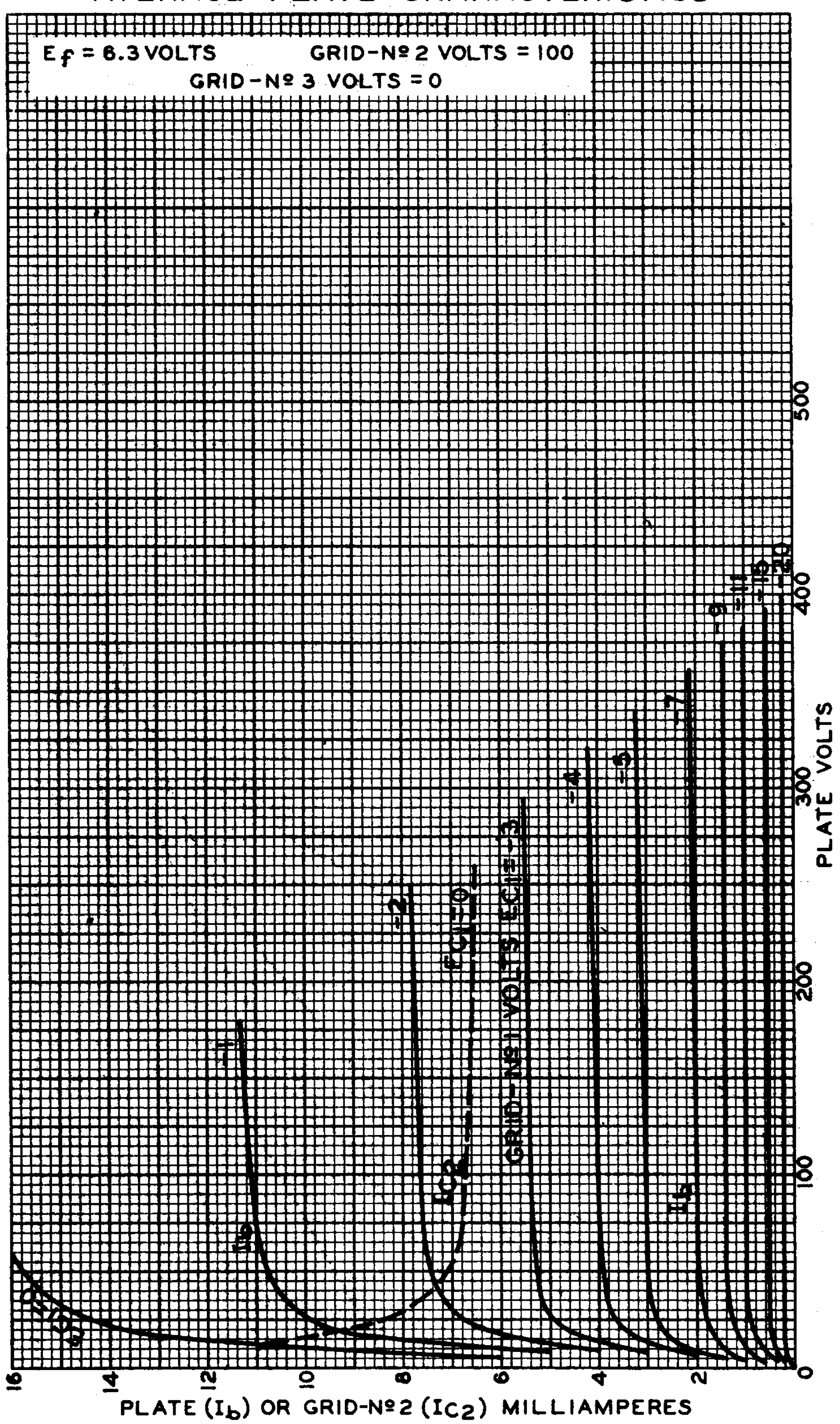
PLATE VOLTAGE	330	max.	volts
GRID No.3 (SUPPRESSOR GRID)	*Connect to cathode at socket*		
GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE	330	max.	volts
GRID-No.2 VOLTAGE	See *Grid-No.2 Input Rating Chart* at front of Receiving Tube Section		
GRID-No.1 (CONTROL-GRID) VOLTAGE:			
Negative-bias value	55	max.	volts
Positive-bias value	0	max.	volts
GRID-No.2 INPUT:			
For grid-No.2 voltages up to 165 volts	0.7	max.	watt
For grid-No.2 voltages between 165 and 330 volts	See *Grid-No.2 Input Rating Chart* at front of Receiving Tube Section		
PLATE DISSIPATION	3.4	max.	watts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode	200	max.	volts
Heater positive with respect to cathode	200●	max.	volts

▲ With external shield JEDEC No.316 connected to cathode.
● The dc component must not exceed 100 volts.

→ Indicates a change.

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AVERAGE PLATE CHARACTERISTICS



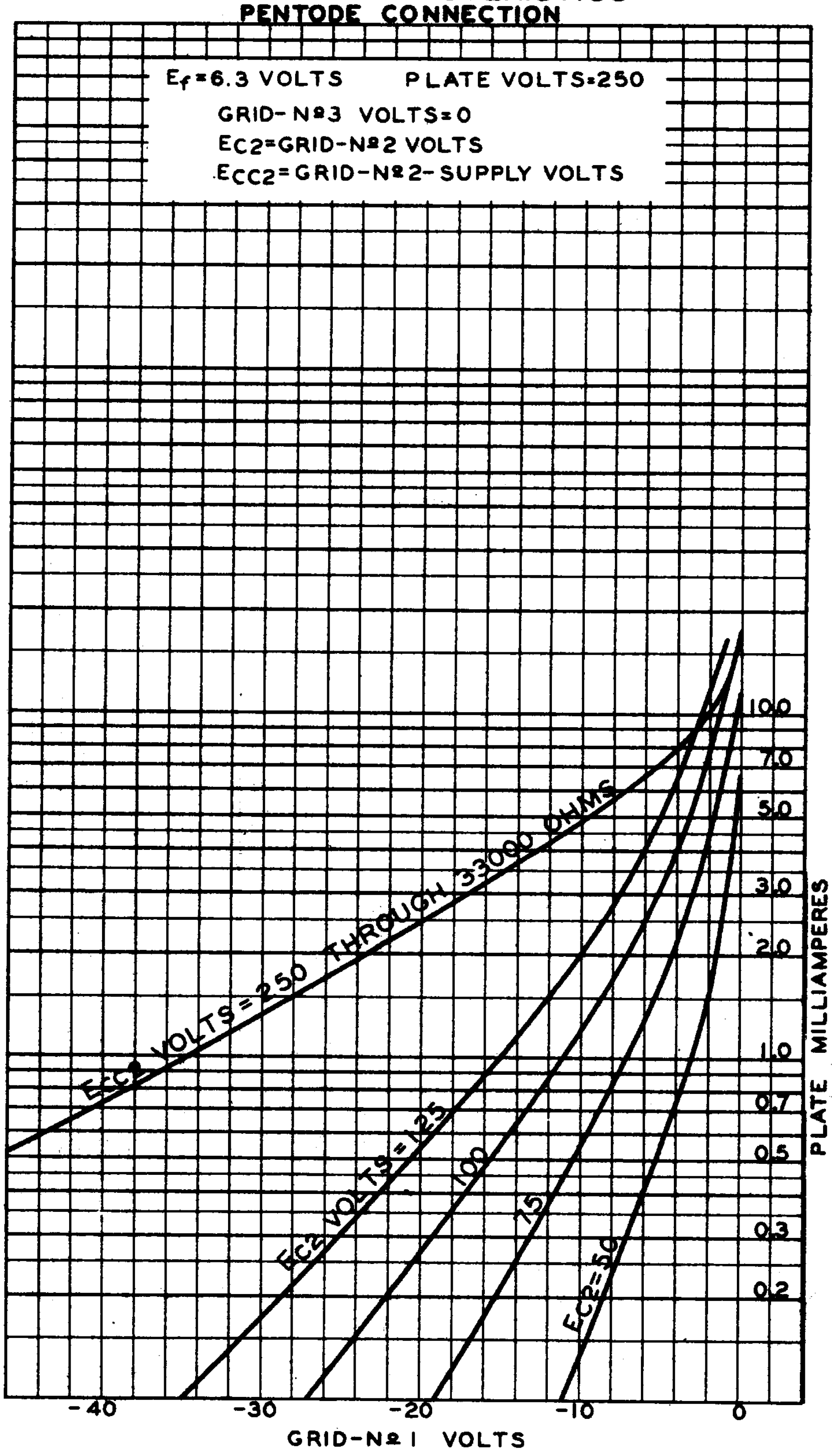
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AVERAGE CHARACTERISTICS
PENTODE CONNECTION



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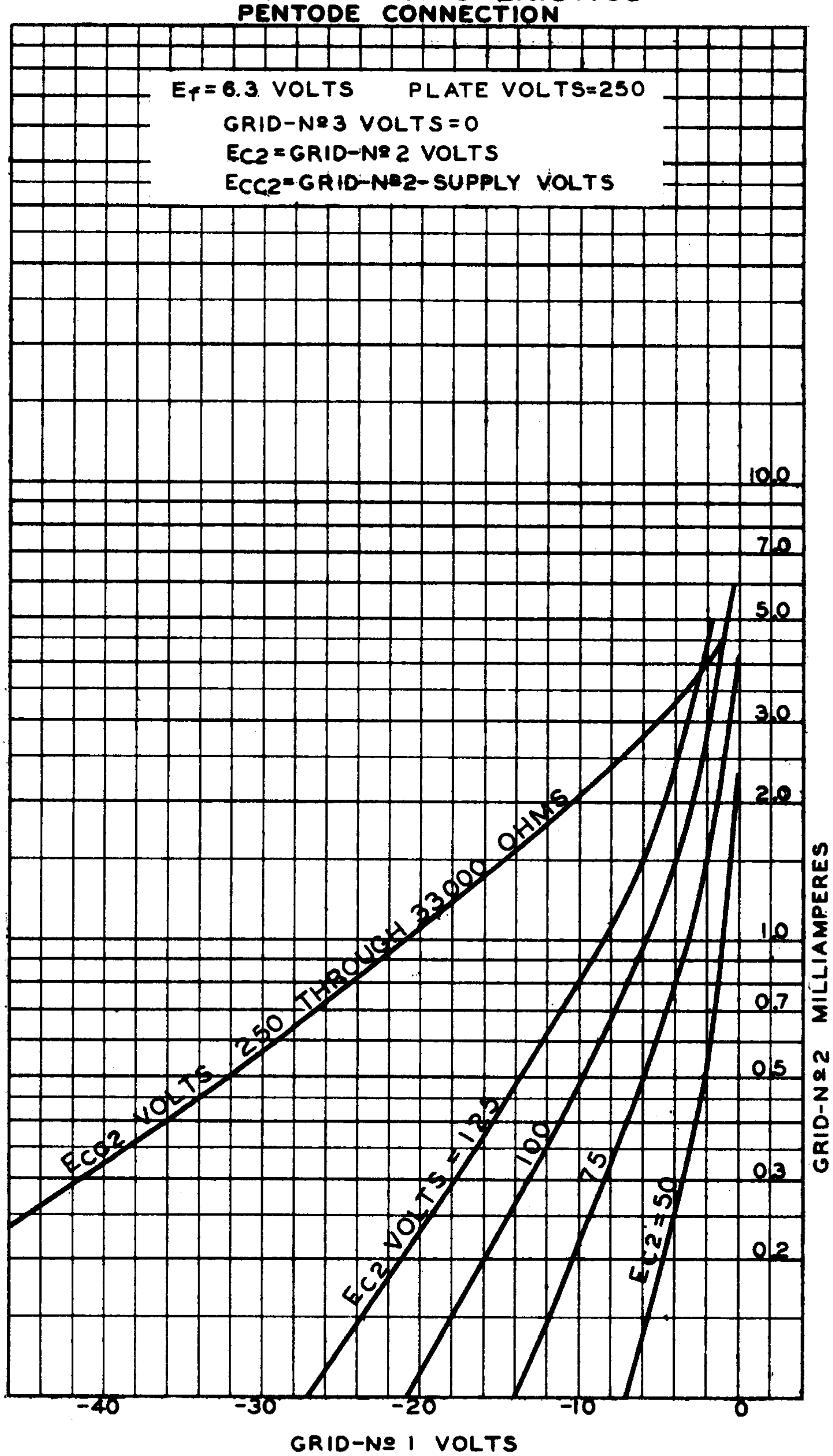
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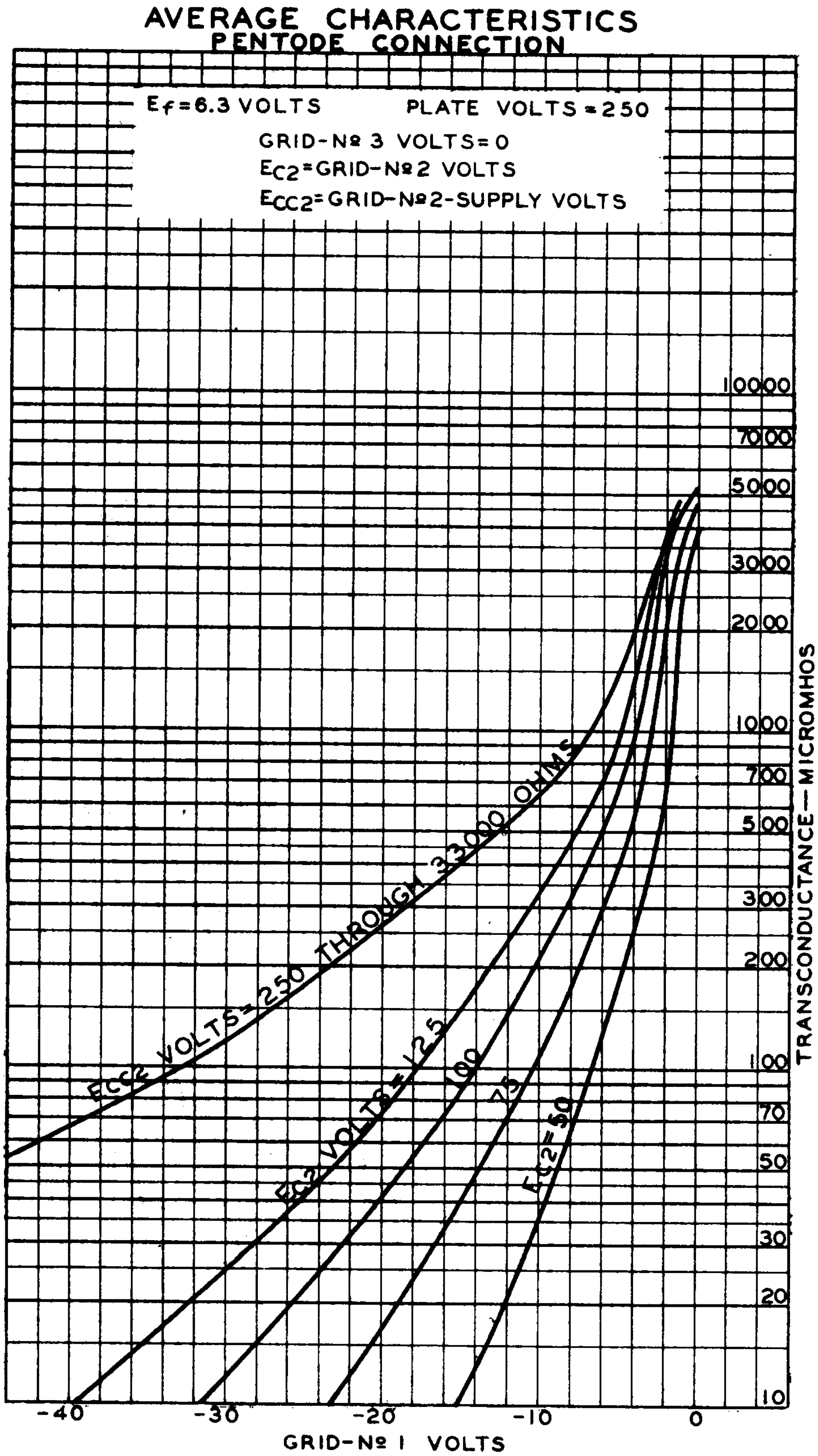
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AVERAGE CHARACTERISTICS
PENTODE CONNECTION



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DEC. 10, 1951

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-6621R1